

Arteriosclerosis

Volume 4, Number 1, January/February 1984

EDITORIAL

- 1 Arteriosclerosis: Progress and Evolution
J. Fraser Mustard and Edwin L. Bierman

- 3 A NOTE OF THANKS

ARTICLES

- 4 Properties of Cultured Endothelium from Adult Human Vessels
Glenna Fry, Thomas Parsons, John Hoak, Helene Sage, Roger D. Gingrich, Louis Ercolani, Dai Nghiem, and Robert Czervionke
- 14 Biochemical Changes in Endothelial Cell Monolayers Induced by Fibrin Deposition In Vitro
Raymond R. Schleef and Charles R. Birdwell
- 21 Compartmentalization of Water in Human Atherosclerotic Lesions. Changes in Distribution and Exclusion Volumes for Plasma Macromolecules
Elsbeth B. Smith and Christopher Ashall
- 28 Flow Separation in the Renal Arteries
Hani N. Sabbah, Earl T. Hawkins, and Paul D. Stein
- 34 Neutral Triglyceride Lipase in Macrophages
John C. Khoo, Jean E. Vance, Eileen M. Mahoney, Dennis Jensen, Edward Wancewicz, and Daniel Steinberg
- 41 Turnover of Low Density Lipoproteins during Inhibition of Cholesterol Absorption by Neomycin
Y. Antero Kesäniemi and Scott M. Grundy
- 49 Isolation and Characterization of Human Plasma Lipid Transfer Proteins
John J. Albers, John H. Tollefson, Ching-Hong Chen, and Armin Steinmetz
- 59 Relationship between Cortisol and Cholesterol in Men with Coronary Artery Disease and Type A Behavior
Harvey A. Schwertner, Raymond G. Troxler, Gregory S. Uhl, and William G. Jackson
- 65 Family Resemblance for Plasma Lipids and Lipoprotein Concentrations in Blacks. Cincinnati Lipid Research Clinic Family Study
Peter M. Laskarzewska, Charles J. Glueck, and Dabeeru C. Rao
- 70 Alteration in Prostacyclin and Prostaglandin E₂ Production. Correlation with Changes in Human Aortic Atherosclerotic Disease
Pierre H. Rolland, Rémy Jouve, Evelynne Pellegrin, Claude Mercier, and André Serradimigni
- 79A **NEWS FROM THE AMERICAN HEART ASSOCIATION**

CONTENTS TO VOLUME 4

Volume 4, Number 2, March/April 1984

REVIEW

- 79** Apoproteins B and A-1 and Coronary Artery Disease in Humans
John D. Brunzell, Allan D. Sniderman, John J. Albers, and Peter O. Kwiterovich, Jr.

ARTICLES

- 84** Smooth Muscle Cell Proliferation in Response to Endothelial Injury in Coronary Arteries of Normal and von Willebrand's Disease Swine
Mary Ann Lamb, James E. Manning, Robert L. Reddick, and Thomas R. Griggs
- 91** In Vitro Reendothelialization. Microfilament Bundle Reorganization in Migrating Porcine Endothelial Cells
Avrum I. Gotlieb, Wendy Spector, Michael K.K. Wong, and Carolyn Lacey
- 97** Human Apolipoprotein A-1—C-III Gene Complex is Located on Chromosome 11
Gail A.P. Bruns, Sotirios K. Karathanasis, and Jan L. Breslow
- 103** Very Low Density Lipoproteins Promote Triglyceride Accumulation in Macrophages
Sandra R. Bates, Patricia L. Murphy, Zongchen Feng, Takemichi Kanazawa, and Godfrey S. Getz
- 115** Effect of Weight Loss in Moderate Obesity on Plasma Lipoprotein and Apolipoprotein Levels and on High Density Lipoprotein Composition
Joseph Zimmerman, Nathan A. Kaufmann, Menachem Fainaru, Shlomo Eisenberg, Yitzchak Oschry, Yechiel Friedlander, and Yechezkiel Stein
- 124** Homozygous Familial Hypercholesterolemia Occurring with Apoprotein E₃ Deficiency. Report of Two Cases
Paul J. Nestel, Michael F. Reardon, and Noel H. Fidge
- 130** Electron Microscopic Structure of Serum Lipoproteins from Patients with Fish Eye Disease
Trudy M. Forte and Lars A. Carlson
- 138** Expression of Apolipoprotein B Epitopes in Very Low Density Lipoprotein Subfractions. Studies with Monoclonal Antibodies
Matti J. Tikkanen, Thomas G. Cole, Kyung-Soo Hahm, Elaine S. Krul, and Gustav Schonfeld
- 147** Dietary Fiber and Lipoprotein Metabolism in the Genetically Obese Zucker Rat
Joseph N. Wilson, Selma P. Wilson, and R. Philip Eaton
- 154** Response of Rhesus Serum High Density Lipoproteins to Cycles of Diet-Induced Hypercholesterolemia
Gunther M. Fless, Dawn Juhn, Joan Karlin, Arthur Rubenstein, and Angelo M. Scanu
- 165** Aortic Intimal Response to Endothelial Removal in Cebus and Squirrel Monkeys
Gayle A. Hoover and K.C. Hayes
- 176A** **NEWS FROM THE AMERICAN HEART ASSOCIATION**

CONTENTS TO VOLUME 4

Volume 4, Number 3, May/June 1984

EDITORIALS

- 177 Obesity and Coronary Heart Disease. New Dimensions
Edward H. Ahrens, Jr.
- 180 Obesity and Coronary Heart Disease. A Targeted Approach
John D. Brunzell

ARTICLES

- 183 Intimal Injury In Vivo Activates Vascular Smooth Muscle Cell Migration and Explant Outgrowth In Vitro
Jörg Grünwald and Christian C. Haudenschild
- 189 Restenosis Following Transluminal Angioplasty in Experimental Atherosclerosis
David P. Faxon, Timothy A. Sanborn, Vance J. Weber, Christian Haudenschild, Susan B. Gottsman, Wanda A. McGovern, and Thomas J. Ryan
- 196 Cholesterol Esterification in Macrophages. Stimulation by Lipoproteins Containing Apo B Isolated from Human Aortas
Beverly A. Clevidence, Richard E. Morton, Gail West, David M. Dusek, and Henry F. Hoff
- 208 In Vitro Metabolism of LDL Labeled with a Nondegradable Cholesteryl Ester Analogue
Diana W. Higgs, Deneys R. van der Westhuyzen, Wieland Gevers, Gerhard A. Coetzee, Olga Stein, and Yechezkiel Stein
- 214 Measurement In Vivo of Irreversible Degradation of Low Density Lipoprotein in the Rabbit Aorta. Predominance of Intimal Degradation
Thomas E. Carew, Ray C. Pittman, E. Roger Marchand, and Daniel Steinberg
- 225 Plasma Triglyceride Determines Structure-Composition in Low and High Density Lipoproteins
Richard J. Deckelbaum, Esther Granot, Yitzchak Oschry, Lynda Rose, and Shlomo Eisenberg
- 232 Absence of Lipoprotein Lipase in Cultured Human Adipose Stromal Cells
Philip A. Kern and Robert H. Eckel
- 238 Low Density Lipoprotein Receptor Mutations in South African Homozygous Familial Hypercholesterolemic Patients
Deneys R. van der Westhuyzen, Gerhard A. Coetzee, Ingrid P.C. Demasius, Eric H. Harley, Wieland Gevers, Sheila G. Baker, and Harry C. Seftel
- 248 LDL, Scavenger, and β -VLDL Receptors on Aortic Endothelial Cells
Derek P. Baker, Brian J. Van Lenten, Alan M. Fogelman, Peter A. Edwards, Charles Kean, and Judith A. Berliner
- 256 In Vivo Catabolism of Biologically Modified LDL
J. Fred Nagelkerke, Louis Havekes, Victor W. M. van Hinsbergh, and Theo J. C. van Berkel
- 265 Effect of a Diet Low in Saturated Fatty Acids on Plasma Lipids, Lipoproteins, and HDL Subfractions
Christian Ehnholm, Jussi K. Huttunen, Pirjo Pietinen, Ulla Leino, Marja Mutanen, Ella Kostainen, James M. Iacono, Rita Dougherty, and Pekka Puska
- 270 Inhibition of Low Density Lipoprotein Synthesis by Dietary Omega-3 Fatty Acids in Humans
D. Roger Illingworth, William S. Harris, and William E. Connor
- 276 Specific Sorbent of Apolipoprotein B-Containing Lipoproteins for Plasmapheresis. Characterization and Experimental Use in Hypercholesterolemic Rabbits
Shinji Yokoyama, Rikuro Hayashi, Toshiro Kikkawa, Nobutaka Tani, Satoru Takada, Kaoru Hatanaka, and Akira Yamamoto
- 283 Transport of ^{125}I -Albumin Across Normal and Deendothelialized Rabbit Thoracic Aorta In Vivo
Carlos A. Ramirez, Clark K. Colton, Kenneth A. Smith, Michael B. Stemerman, and Robert S. Lees

MEETING SUMMARY

- 292 Regression of Atherosclerotic Lesions
M. Rene Malinow and Victor Blaton

SPECIAL REPORT

- 296 Treatment of Hypertriglyceridemia. NIH Consensus Development Conference Summary

- 302A NEWS FROM THE AMERICAN HEART ASSOCIATION

CONTENTS TO VOLUME 4

Volume 4, Number 4, July/August 1984

REVIEW

- 303** Clinical, Biochemical, and Genetic Features in Familial Disorders of High Density Lipoprotein Deficiency
Ernst J. Schaefer

ARTICLES

- 323** Studies of Hypercholesterolemia in the Nonhuman Primate. I. Changes that Lead to Fatty Streak Formation
Agostino Faggitto, Russell Ross, and Laurence Harker
- 341** Studies of Hypercholesterolemia in the Nonhuman Primate. II. Fatty Streak Conversion to Fibrous Plaque
Agostino Faggitto and Russell Ross
- 357** Endothelial and Smooth Muscle Cells Alter Low Density Lipoprotein In Vitro by Free Radical Oxidation
Diane W. Morel, Paul E. DiCorleto, and Guy M. Chisolm
- 365** Metabolism of Low Density Lipoprotein by Bovine Endothelial Cells as a Function of Cell Density
Richard Kenagy, Edwin L. Bierman, Stephen Schwartz, and John J. Albers
- 372** Endothelial Transport of Anionized and Cationized Ferritin in the Rabbit Thoracic Aorta and Vasa Vasorum
Ann L. Baldwin and Shu Chien
- 383** Cholesterol and Bile Acid Synthesis in Two Families with Homozygous and Heterozygous Hypercholesterolemia
Tatu A. Miettinen
- 389** No Effect of Nifedipine on Atherogenesis in Cholesterol-Fed Rabbits
Steen Stender, Ida Stender, Børge Nordestgaard, and Knud Kjeldsen
- 395** Kinetics of Low Density Lipoprotein Interactions with Rabbit Aortic Wall Following Balloon Catheter Deendothelialization
Misbahuddin Alavi and Sean Moore
- 403** Effect of Aspirin and Salicylate on Platelet-Vessel Wall Interactions in Rabbits
Michael R. Buchanan and Jack Hirsh
- 407** Physiologic and Supraphysiologic Increases in Lipoprotein Lipids and Apoproteins in Late Pregnancy and Postpartum. Possible Markers for the Diagnosis of "Prelipemia"
Agustin Montes, Carolyn E. Walden, Robert H. Knopp, Marian Cheung, Margaret B. Chapman, and John J. Albers
- 418** In Vitro and In Vivo Interactions of Triton 1339 with Plasma Lipoproteins of Normolipidemic Rhesus Monkeys. Preferential Effects on High Density Lipoproteins
Kyosuke Yamamoto, Betty Shen, Christopher Zarins, and Angelo M. Scanu
- 435** Cardiac and Peripheral Lymph Lipoproteins in Dogs Fed Cholesterol and Saturated Fat
Pierre Julien, Bessie Fong, and Aubie Angel

AHA SPECIAL REPORT

- 443A** Recommendations for the Treatment of Hyperlipidemia in Adults. A Joint Statement of the Nutrition Committee and the Council on Arteriosclerosis of the American Heart Association
Ad Hoc Committee to Design a Dietary Treatment of Hyperlipoproteinemia

- 469A** **NEWS FROM THE AMERICAN HEART ASSOCIATION**

CONTENTS TO VOLUME 4

Volume 4, Number 5, September/October 1984

GEORGE LYMAN DUFF MEMORIAL LECTURE

- 443** Persistent Problems in the Pathogenesis of Atherosclerosis
Henry C. McGill, Jr.

ARTICLES

- 452** Uptake of Apolipoprotein E-Containing High Density Lipoproteins by Hepatic Parenchymal Cells
Harold Funke, Janet Boyles, Karl H. Welsgraber, Erwin H. Ludwig, David Y. Hui, and Robert W. Mahley
- 462** Plasma and Lipoprotein Cholesterol and Triglyceride in the Pima Indian Population. Comparison of Diabetics and Nondiabetics
Barbara V. Howard, William C. Knowler, Barbara Vasquez, Annette L. Kennedy, David J. Pettitt, and Peter H. Bennett
- 472** Abnormalities of High Density Lipoproteins in Homozygous Familial Hypercholesterolemia
Ronald B. Goldberg, Gunther M. Fless, Sheila G. Baker, Barry I. Joffe, Godfrey S. Getz, Angelo M. Scanu, and Harold C. Seftel
- 479** Endothelial Healing in the Rabbit Aorta and the Effect of Risk Factors for Atherosclerosis. Hypercholesterolemia
Louise N. Walker and David E. Bowyer
- 489** Exposure to Free Fatty Acid Increases the Transfer of Albumin across Cultured Endothelial Monolayers
Bernhard Hennig, D. Michael Shasby, Alice B. Fulton, and Arthur A. Spector
- 498** Characterization of Antigenic Determinants of Human Apolipoprotein B. Distribution on Tryptic Fragments of Low Density Lipoprotein
Richard Theolis Jr., Philip K. Weech, Yves L. Marcel, and Ross W. Milne

MEETING SUMMARY

- 510** Genetic Epidemiology of Coronary Heart Disease. Past, Present, and Future
Christine Carter, Richard Havlik, Manning Feinleib, Lewis H. Kuller, Robert Elston, and D. C. Rao
- 517** **Correction**
Framingham Heart Study Data on Females Using Estrogen Supplements
Robert D. Abbott, Robert J. Garrison, and Peter W.F. Wilson

ABSTRACTS

- 518a** Abstracts Submitted to the 38th Annual Meeting, Council on Arteriosclerosis, American Society for the Study of Arteriosclerosis, Miami Beach, Florida, November 1984
- 568a** Authors Index to Abstracts
- 579A** **NEWS FROM THE AMERICAN HEART ASSOCIATION**

CONTENTS TO VOLUME 4

Volume 4, Number 6, November/December 1984

REVIEW

- 579** New Approaches to Thrombolytic Therapy
Desire Collen and Henri R. Lijnen

ARTICLES

- 586** Atherosclerosis and Myocardial Ischemic Lesions in Alloxan-Diabetic Rabbits Fed a Low Cholesterol Diet
Rodney A. Miller and Robert A. Wilson
- 592** Impaired Glucose Tolerance and Risk Factors for Atherosclerosis
Olga Vaccaro, Angela Rivellesse, Gabriele Riccardi, Brunella Capaldo, Loredana Tutino, Giovanni Annuzzi, and Mario Mancini
- 598** Double Pre-Beta Lipoprotein. Isolation and Characterization of the Two Populations of Very Low Density Lipoproteins by Zonal Ultracentrifugation
Enzo Manzato, Antonio Pagnan, Lorena Ziron, Adriana Gasparotto, and Monica Braggion
- 604** Contribution of the Receptor Pathway to Low Density Lipoprotein Catabolism in Humans. New Methods for Quantitation
Howard R. Slater, Linda McKinney, Christopher J. Packard, and James Shepherd
- 614** Low Density Lipoprotein Metabolism in Familial Combined Hyperlipidemia. Mechanism of the Multiple Lipoprotein Phenotypic Expression
Ahmed H. Kissebah, Salman Alfarsi, and David J. Evans
- 625** Premature Development of Iliac Artery Stenosis in Asymptomatic Type II Hyperlipoproteinemia
Paolo Rubba, Alfredo Postiglione, Biagio De Simone, Fulvio Faccenda, Gabriele Riccardi, and Mario Mancini
- 630** Mobilization of Stored Triglycerides from Macrophages as Free Fatty Acids
Eberhard von Hodenberg, John C. Khoo, Dennis Jensen, Joseph L. Witztum, and Daniel Steinberg
- 636** Atherogenic Diet-Induced Modification of the Subfraction Distribution of High Density Lipoproteins in Monkeys
Lawrence L. Rudel, Charles A. Nelson, and Karen R. Weiss

MEETING SUMMARY

- 647** Molecular Biology and the Vascular Wall. Proceedings of a Meeting
Stephen M. Schwartz

657A NEWS FROM THE AMERICAN HEART ASSOCIATION

657 INDEX TO VOLUME 4

